

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,329	11/25/2003	Marinus A. Doomernik	AVER.P03204USA	6509
7590 09/19/2005			EXAMINER	
Todd R. Tucker			CHEVALIER, ALICIA ANN	
Renner, Otto, B	oisselle & Sklar, LLP			
Nineteenth Floor			ART UNIT	PAPER NUMBER
1621 Euclid Avenue			1772	
Cleveland, OH 44115-2191			DATE MAILED: 09/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/722,329	DOOMERNIK, MARINUS A.
	Office Action Summary	Examiner	Art Unit
		Alicia Chevalier	1772
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
WHI(- Exte after - If NO - Failu Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES OF COMMENTS O	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			·
1)⊠ 2a)⊠ 3)□	Responsive to communication(s) filed on <u>06 Jules</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposit	ion of Claims		
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-16 and 24-28 is/are pending in the a 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-16 and 24-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or ion Papers	vn from consideration.	
	·		
10)□	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119		
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on Noed in this National Stage
2) D Notic 3) D Infor	et(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) tr No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

Application/Control Number: 10/722,329

Art Unit: 1772

RESPONSE TO AMENDMENT

1. Claims 1-16 and 24-28 are pending in the application, claims 17-23 have been cancelled.

REJECTIONS

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

3. Claims 1-4, 8-16 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Will et al. (U.S. Patent No. 5,766,795) in view of Weiss et al. (U.S. Patent No. 5,830,596).

Regarding Applicant's claim 1, Will discloses a multi-layer label for a battery comprising a transparent shrinkable outer film (transparent foil, col. 3, line 24 and col. 1, lined 36-37) forming the outermost layer of the label (figure 5), a first adhesive layer (laminated adhesive, col. 3, line 25), a transparent shrinkable carrier film (transparent foil, col. 3, lines 20-21 and col. 1, lined 36-37), an outwardly visible indicia (imprint, col. 3, line 24) and a second adhesive (laminated adhesive, col. 3, line 23). The transparent shrinkable carrier film having the first adhesive layer on one side confronting the outer layer and bonding the carrier layer to the outer layer (figure 5).

Will fails to disclose that the adhesives are transparent and that the outwardly visible indicia layer is on the carrier layer on the opposite side from the outermost layer.

Art Unit: 1772

Weiss discloses a multi-layer label for a battery (*title and figure 2*) comprising a transparent shrinkable film and clear, i.e. transparent, adhesive (*col. 6, lines 13-17*).

Will and Weiss are analogous because both disclose multi-layer labels for batteries.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Weiss' transparent adhesives as the adhesive layers in Will in order to improve visibility through the layers to see the indicia. One of ordinary skill in the art would have been motivated to transparent adhesives because they would allow an unobscured view of the printed layer.

Will discloses the claimed invention except for that the outwardly visible indicia layer is on the carrier layer on the opposite side from the outermost layer. However, Will discloses in the various embodiments (figures 1, and 3-5) that the indicia, i.e. imprint layer, can be behind transparent shrinkable film (figure 4), in front of a transparent shrinkable film (figure 5) or on a paper carrier layer adjacent the battery (figure 3). Therefore, it would have been obvious to one having to one having ordinary skill in the art at the time the invention was made put the outwardly visible indicia layer is on the carrier layer on the opposite side from the outermost layer, since it has been held that rearranging parts of an invention involves only routine skill in the art. MPEP 2144.04 VI C.

Regarding Applicant's claim 2, Will discloses that at least one of the outer film and the carrier film are made of polyvinyl chloride (col. 1, lines 42-44).

Regarding Applicant's claims 3 and 4, Will fails to disclose that at least one of the outer film and the carrier film are made of polypropylene or polyester. Weiss discloses that the shrinkable film is made of polyvinyl chloride, polypropylene or polyester (col. 6, lines 30-36). Therefore, since Weiss shows that polyvinyl chloride, polypropylene and polyester are

Page 4

equivalent in the art for use as shrinkable films in battery labels at the time the invention was made, one of ordinary skill in the art would have found it obvious to substitute polypropylene or polyester for polyvinyl chloride.

Regarding Applicant's claim 8, Will discloses that the indicia layer includes a nonmetallic pigment that produces the effect of a metallized label (col. 3, lines 7-9).

Regarding Applicant's claim 9, the limitation "wherein the outer film and the carrier film are coextruded to form a film composite" is a method limitation and does not determine the patentability of the product, unless the process produces unexpected results. The method of forming the product is not germane to the issue of patentability of the product itself, unless Applicant presents evidence from which the Examiner could reasonably conclude that the claimed product differs in kind from those of the prior art. MPEP 2113. Furthermore, there does not appear to be a difference between the prior art structure and the structure resulting from the claimed method because Will discloses a film composite comprising two distinct film layers (figure 5).

Regarding Applicant's claims 10 and 11, Will fails to disclose that the label comprises a thermochromic material and a conductive layer.

As disclosed above Weiss discloses a label for a battery. The label further comprises an inserted battery tester device that comprises a layer of thermochromic material and a conductive layer in thermal contact with the thermochromic layer (col. 3, line 43 through col. 4, line 21).

It would have been obvious to one of ordinary skill in the art at the time of the invention to insert Weiss' battery tester device with a thermochromic material and conductive layer in Will's label in order to be able to test the battery to see if it has sufficient charge to operate a

desired device. One of ordinary skill in the art would have been motivated to insert a battery tester into the label so that separate stand alone testers, which are easily misplaced and cumbersome, are not need (Weiss col. 1, lines 42-54).

Regarding Applicant's claim 12, Weiss further shows that the conductive layer does not extend the entire width of the battery (Weiss figure 1). Therefore the length dimension of at least one of the outer film and the carrier film exceeds the circumference of the battery by an amount at least equal to the width of the conductive layer, since Will shows that the outer and carrier films extend the entire length of the battery (Will figure 1).

Regarding Applicant's claim 13, the combination of Will and Weiss discloses that the conductive layer, when the label is wrapped around a battery, is confronted on both sides by at least one of the outer film and the carrier film.

Regarding Applicant's claims 14 and 15, Will fails to discloses that the outer film has a thickness in the range of about 10 to 25 microns or that the carrier film has a thickness in the range of about 25 to 50 microns.

Weiss discloses that the thickness of the shrinkable film is not particularly limited, but is preferably in the range of from about 0.0005 to about 0.005 inches (col. 6, lines 40-43), which is equivalent to about 12.7-127 microns.

Therefore, the exact thickness of the carrier and outer films are deemed to be a result effective variable. It would require routine experimentation to determine the optimum value of a result effective variable, such as thickness of the carrier and outer films, in the absence of a showing of criticality in the claimed thickness. *In re Boesch*, 205 USPQ 215 (CCPA 1980), *In re Woodruff*, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

Art Unit: 1772

Regarding Applicant's claim 16, Will discloses that the label further includes a release liner confronting the second adhesive (base, col. 2, lines 35-36).

Regarding Applicant's claim 24, the combination of Will and Weiss discloses all the limitation as described above with regards to claims 1, 10, 11 and 16.

Regarding Applicant's claim 25, the combination of Will and Weiss discloses the claimed invention except for that the layer of thermochromic material and the layer of conductive material are on opposite sides of the second adhesive layer. It would have been obvious to one having to one having ordinary skill in the art at the time the invention was made put the outwardly visible indicia layer is on the carrier layer on the opposite side from the outermost layer, since it has been held that rearranging parts of an invention involves only routine skill in the art. MPEP 2144.04 VI C.

Regarding Applicant's claim 24, the combination of Will and Weiss discloses all the limitation as described above with regards to claim 13.

4. Claim 5-7, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Will and Weiss as applied above, and further in view of Abe et al. (U.S. Patent No. 5,725,966).

Will and Weiss are relied upon as described above.

Will and Weiss fail to disclose that the outer film has balanced oriented shrinkable properties and the carrier film has mono-axially oriented shrinkage properties.

Abe disclose a multiplayer label for batteries (col. 3, line 39) comprising a heat-shrinking resin film made of polyvinyl chloride, polypropylene or polyester (col. 3, lines 54-57). Abe further discloses that the film can either be uniaxially, i.e. mono-axially, or biaxially, i.e.

Page 7

balanced, oriented so that it can shrink largely in the circumferential direction of the battery when the film is wrapped around it (col. 3, lines 62-65).

Will, Weiss and Abe are analogous because they disclose multi-layer labels for batteries.

It would have been obvious to one of ordinary skill in the art at the time of the invention to either balance or mono-axially orient the outer or carrier films in the combination of Will and Weiss as taught by Abe in order to form fit the label to the battery. One of ordinary skill in the art would have been motivated to use balanced or mono-axially orientations because they allow shrinkage largely in the circumferential direction of the battery when the film is wrapped around it (Abe col. 3, lines 62-65).

ANSWERS TO APPLICANT'S ARGUMENTS

5. Applicant's arguments in the response filed July 6, 2005 regarding the 35 U.S.C. 103 rejections of record have been carefully considered but are deemed unpersuasive.

Applicant argues that none of the references of record have been found to disclose or fairly suggest the claimed structure recited by independent claims 1 and 24. Applicant specifically argues that Will discloses extra intermediary layers between the outermost layer and the carrier layer and instant claim 1 claims that the carrier film has a first transparent adhesive layer on one side of the confronting the outer layer and bonding the carrier layer to the outer layer and an outwardly visible indicia layer on the other side and a second transparent adhesive layer adjacent the indicia for bonding the label to the battery.

The fact that Will discloses extra intermediary layers between the outermost layer and the carrier not required by Applicant's claimed invention is irrelevant. Furthermore, it is noted that

Art Unit: 1772

the first adhesive in Will is between the carrier film and outer film and confronting, i.e. facing, the outer film as claimed.

It appears that Applicant is arguing that the outer film is disposed on the first adhesive and the carrier film is also disposed on the first adhesive on a side opposite the outer film.

However, the instant claim 1 does not require the layers to be disposed upon one another, just that they are in a certain order in the label.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

Application/Control Number: 10/722,329 Page 9

Art Unit: 1772

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hevalies

Alicia Chevalier Primary Examiner

9/14/05